



E-MARINE
SOLUTIONS

e-MOBILITY

Scandlines PR 24
Hybrid Ro-Pax Ferry

Electrification of the busy Baltic corridor between Germany and Denmark, using Leclanché batteries

Vessel description

The **RoPax** (roll-on, roll-off freight and passenger) ferry is currently under construction and is planned to enter commercial service in 2024. The PR24 will be 147 m long and 25 m wide, with a passenger capacity of 140, and a capacity of 66 freight units.



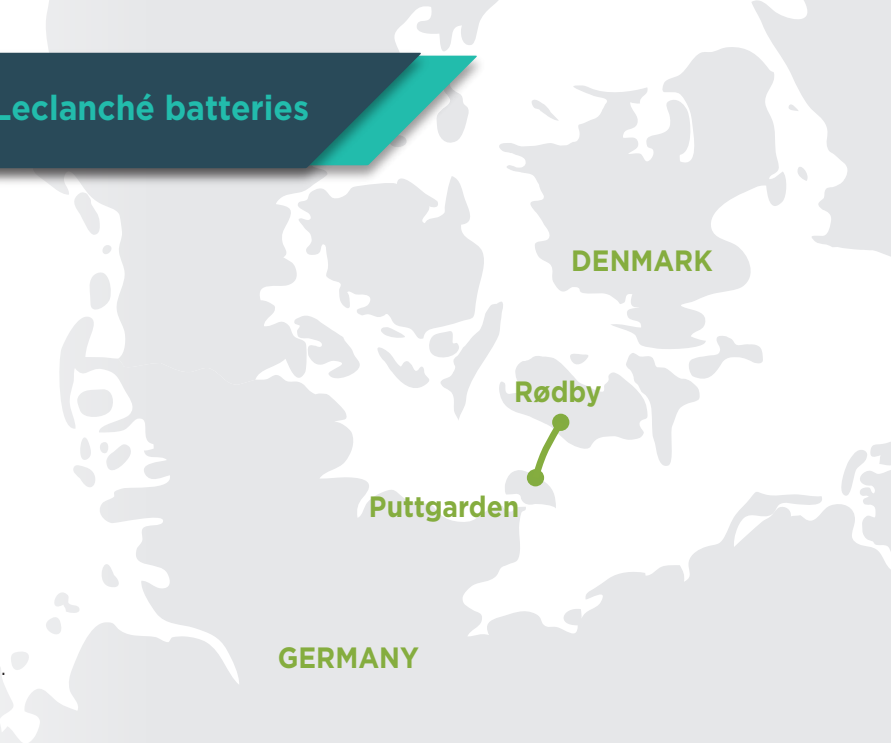
Our battery solution

The **Navius MRS-3 battery system** is the latest generation of marine battery systems from Leclanché and has been specifically designed for the supply of on-board energy storage in marine applications.

It comprises the latest Leclanché M3 Energy battery modules fitted with proprietary high energy G/NMC cells, a Functionally Safe Battery Management system and is assembled into a scalable and modular rack system. This new design enables the **Navius MRS-3** to be configured to fit efficiently into the available space on nearly any vessel.

At the heart of the new **Navius MRS-3** battery system are class leading Leclanché high cycle-life G/NMC cells which are designed and developed by our world class electrochemistry experts and produced at our automated facility in Germany.

It utilises modules with dedicated liquid-cooled plates for more efficient thermal management and a longer system lifetime. This liquid-cooled technology also permits significant system weight savings and a more compact footprint compared to an equivalent capacity air-cooled system.



Technical Specifications

Ship yard	Cemre Shipyard
Ship design	LMG Marin AS
Newbuild/Retrofit	Newbuild
Vessel size	147 m x 25 m
Passenger capacity	140 passengers/ 66 freight units
Area of operation	Denmark & Germany
Ship integrator	Norwegian Electric Systems (NES)
Battery capacity	10,028 kWh
Bus voltage	648 to 864 V
Class	Lloyd's register
Flag state	Denmark